

PAGE: 1

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/963,656DATE: 03/13/98  
TIME: 16:53:52

INPUT SET: S24138.raw

This Raw Listing contains the General  
Information Section and up to the first 5 pages.

## SEQUENCE LISTING

1  
2  
3 (1) General Information:  
4  
5 (i) APPLICANT: Gerard, Craig J.  
6 Gerard, Norma P.  
7 Mackay, Charles R.  
8 Ponath, Paul D.  
9 Post, Theodore W.  
10 Qin, Shixin  
11  
12 (ii) TITLE OF INVENTION: G PROTEIN-COUPLED RECEPTOR GENE CCR3 AND  
13 ANTAGONISTS THEREOF  
14  
15 (iii) NUMBER OF SEQUENCES: 18  
16  
17 (iv) CORRESPONDENCE ADDRESS:  
18 (A) ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.  
19 (B) STREET: Two Militia Drive  
20 (C) CITY: Lexington  
21 (D) STATE: MA  
22 (E) COUNTRY: USA  
23 (F) ZIP: 02173  
24  
25  
26 (v) COMPUTER READABLE FORM:  
27 (A) MEDIUM TYPE: Floppy disk  
28 (B) COMPUTER: IBM PC compatible  
29 (C) OPERATING SYSTEM: PC-DOS/MS-DOS  
30 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30  
31  
32  
33 (vi) CURRENT APPLICATION DATA:  
34 (A) APPLICATION NUMBER:  
35 (B) FILING DATE: 03-NOV-1997  
36 (C) CLASSIFICATION:  
37  
38 (vii) PRIOR APPLICATION DATA:  
39 (A) APPLICATION NUMBER: 08/720,565  
40 (B) FILING DATE: 30-SEP-1996  
41  
42 (vii) PRIOR APPLICATION DATA:  
43 (A) APPLICATION NUMBER: PCT/US96/00608  
44 (B) FILING DATE: 19-JAN-1996  
45  
46 (vii) PRIOR APPLICATION DATA:

ENTERED

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/963,656DATE: 03/13/98  
TIME: 16:53:55

INPUT SET: S24138.raw

47 (A) APPLICATION NUMBER: US 08/375,199  
48 (B) FILING DATE: 19-JAN-1995  
49  
50  
51 (viii) ATTORNEY/AGENT INFORMATION:  
52 (A) NAME: Brook, David E.  
53 (B) REGISTRATION NUMBER: 22,592  
54 (C) REFERENCE/DOCKET NUMBER: LKS94-05A2Z  
55  
56 (ix) TELECOMMUNICATION INFORMATION:  
57 (A) TELEPHONE: 781-861-6240  
58 (B) TELEFAX: 781-861-9540  
59 (2) INFORMATION FOR SEQ ID NO:1:  
60  
61 (i) SEQUENCE CHARACTERISTICS:  
62 (A) LENGTH: 1689 base pairs  
63 (B) TYPE: nucleic acid  
64 (C) STRANDEDNESS: double  
65 (D) TOPOLOGY: linear  
66  
67 (ii) MOLECULE TYPE: DNA (genomic)  
68  
69  
70  
71 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:  
72  
73 AATCCTTTTC CTGGCACCTC TGATATCCTT TTGAAATTCA TGTTAAAGAA TCCCTAGGCT 60  
74  
75 GCTATCACAT GTGGCATCTT TGTTGAGTAC ATGAATAAAT CAACTGGTGT GTTTTACGAA 120  
76  
77 GGATGATTAT GCTTCATTGT GGGATTGTAT TTTTCTTCTT CTATCACAGG GAGAAGTGAA 180  
78  
79 ATGACAACCT CACTAGATAC AGTTGAGACC TTTGGTACCA CATCCTACTA TGATGACGTG 240  
80  
81 GGCCTGCTCT GTGAAAAAGC TGATACCAGA GCACTGATGG CCCAGTTTGT GCCCCCCTG 300  
82  
83 TACTCCCTGG TGTTCACTGT GGGCCTCTTG GGCAATGTGG TGGTGGTGAT GATCCTCATA 360  
84  
85 AAATACAGGA GGCTCCGAAT TATGACCAAC ATCTACCTGC TCAACCTGGC CATTTCCGAC 420  
86  
87 CTGCTCTTCC TCGTCACCCT TCCATTCTGG ATCCACTATG TCAGGGGGCA TAACTGGGTT 480  
88  
89 TTTGGCCATG GCATGTGTAA GCTCCTCTCA GGGTTTTATC ACACAGGCTT GTACAGCGAG 540  
90  
91 ATCTTTTTTCA TAATCCTGCT GACAATCGAC AGGTACCTGG CCATTGTCCA TGCTGTGTTT 600  
92  
93 GCCCTTCGAG CCCGGACTGT CACTTTTGGT GTCATCACCA GCATCGTCAC CTGGGGCCTG 660  
94  
95 GCAGTGCTAG CAGCTCTTCC TGAATTTATC TTCTATGAGA CTGAAGAGTT GTTTGAAGAG 720  
96  
97 ACTCTTTGCA GTGCTCTTTA CCCAGAGGAT ACAGTATATA GCTGGAGGCA TTTCCACACT 780  
98  
99 CTGAGAATGA CCATCTTCTG TCTCGTTCTC CCTCTGCTCG TTATGGCCAT CTGCTACACA 840

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/963,656DATE: 03/13/98  
TIME: 16:53:59

INPUT SET: S24138.raw

100  
101 GGAATCATCA AAACGCTGCT GAGGTGCCCC AGTAAAAAAA AGTACAAGGC CATCCGGCTC 900  
102  
103 ATTTTGTGCA TCATGGCGGT GTTTTTCATT TTCTGGACAC CCTACAATGT GGCTATCCTT 960  
104  
105 CTCTCTTCCT ATCAATCCAT CTTATTTGGA AATGACTGTG AGCGGACGAA GCATCTGGAC 1020  
106  
107 CTGGTCATGC TGGTGACAGA GGTGATCGCC TACTCCCACT GCTGCATGAA CCCGGTGATC 1080  
108  
109 TACGCCTTTG TTGGAGAGAG GTTCCGGAAG TACCTGCGCC ACTTCTTCCA CAGGCACTTG 1140  
110  
111 CTCATGCACC TGGGCAGATA CATCCCATT CTTCTAGTG AGAAGCTGGA AAGAACCAGC 1200  
112  
113 TCTGTCTCTC CATCCACAGC AGAGCCGGAA CTCTCTATTG TGTTTTAGGT AGATGCAGAA 1260  
114  
115 AATTGCCTAA AGAGGAAGGA CCAAGGAGAT NAAGCAAACA CATTAAGCCT TCCACACTCA 1320  
116  
117 CCTCTAAAC AGTCCTTCAA ACCTTCCAGT GCAACACTGA AGCTCTTAAG AACTGAAAT 1380  
118  
119 ATACACACAG CAGTAGCAGT AGATGCATGT ACCCTAAGGT CATTACCACA GGCCAGGGCT 1440  
120  
121 GGGCAGCGTA CTCATCATCA ACCTAAAAAG CAGAGCTTTG CTTCTCTCTC TAAAATGAGT 1500  
122  
123 TACCTATATT TTAATGCACC TGAATGTTAG ATAGTTACTA TATGCCGCTA CAAAAGGTA 1560  
124  
125 AAACCTTTTATA TATTTTATAC ATTAACCTTCA GCCAGCTATT ATATAAATAA AACATTTTCA 1620  
126  
127 CACAATACAA TAAGTTAACT ATTTTATTTT CTAATGTGCC TAGTTCTTTC CCTGCTTAAT 1680  
128  
129 GAAAAGCTT 1689  
130  
131  
132

## (2) INFORMATION FOR SEQ ID NO:2:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 355 amino acids  
(B) TYPE: amino acid  
(C) STRANDEDNESS:  
(D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: protein

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Met Thr Thr Ser Leu Asp Thr Val Glu Thr Phe Gly Thr Thr Ser Tyr  
1 5 10 15  
Tyr Asp Asp Val Gly Leu Leu Cys Glu Lys Ala Asp Thr Arg Ala Leu  
20 25 30  
Met Ala Gln Phe Val Pro Pro Leu Tyr Ser Leu Val Phe Thr Phe Gly

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/963,656

DATE: 03/13/98  
TIME: 16:54:02

INPUT SET: S24138.raw

	35	40	45
153			
154			
155	Leu Leu Gly Asn Val Val Val Val Met Ile Leu Ile Lys Tyr Arg Arg		
156	50	55	60
157			
158	Leu Arg Ile Met Thr Asn Ile Tyr Leu Leu Asn Leu Ala Ile Ser Asp		
159	65	70	75 80
160			
161	Leu Leu Phe Leu Val Thr Leu Pro Phe Trp Ile His Tyr Val Arg Gly		
162		85	90 95
163			
164	His Asn Trp Val Phe Gly His Gly Met Cys Lys Leu Leu Ser Gly Phe		
165		100	105 110
166			
167	Tyr His Thr Gly Leu Tyr Ser Glu Ile Phe Phe Ile Ile Leu Leu Thr		
168		115	120 125
169			
170	Ile Asp Arg Tyr Leu Ala Ile Val His Ala Val Phe Ala Leu Arg Ala		
171		130	135 140
172			
173	Arg Thr Val Thr Phe Gly Val Ile Thr Ser Ile Val Thr Trp Gly Leu		
174		145	150 155 160
175			
176	Ala Val Leu Ala Ala Leu Pro Glu Phe Ile Phe Tyr Glu Thr Glu Glu		
177		165	170 175
178			
179	Leu Phe Glu Glu Thr Leu Cys Ser Ala Leu Tyr Pro Glu Asp Thr Val		
180		180	185 190
181			
182	Tyr Ser Trp Arg His Phe His Thr Leu Arg Met Thr Ile Phe Cys Leu		
183		195	200 205
184			
185	Val Leu Pro Leu Leu Val Met Ala Ile Cys Tyr Thr Gly Ile Ile Lys		
186		210	215 220
187			
188	Thr Leu Leu Arg Cys Pro Ser Lys Lys Lys Tyr Lys Ala Ile Arg Leu		
189		225	230 235 240
190			
191	Ile Phe Val Ile Met Ala Val Phe Phe Ile Phe Trp Thr Pro Tyr Asn		
192		245	250 255
193			
194	Val Ala Ile Leu Leu Ser Ser Tyr Gln Ser Ile Leu Phe Gly Asn Asp		
195		260	265 270
196			
197	Cys Glu Arg Thr Lys His Leu Asp Leu Val Met Leu Val Thr Glu Val		
198		275	280 285
199			
200	Ile Ala Tyr Ser His Cys Cys Met Asn Pro Val Ile Tyr Ala Phe Val		
201		290	295 300
202			
203	Gly Glu Arg Phe Arg Lys Tyr Leu Arg His Phe Phe His Arg His Leu		
204		305	310 315 320
205			

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/963,656

DATE: 03/13/98  
TIME: 16:54:06

INPUT SET: S24138.raw

206 Leu Met His Leu Gly Arg Tyr Ile Pro Phe Leu Pro Ser Glu Lys Leu  
207 325 330 335  
208  
209 Glu Arg Thr Ser Ser Val Ser Pro Ser Thr Ala Glu Pro Glu Leu Ser  
210 340 345 350  
211  
212 Ile Val Phe  
213 355  
214  
215  
216

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1193 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(ix) FEATURE:

- (A) NAME/KEY: CDS
- (B) LOCATION: 92..1156

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

234  
235 TTGTGCTTAT CCGGGCAAGA ACTTATCGAA ATACAATAGA AGACCCACGC GTCCGGTTTT 60  
236  
237 TACTTAGAAG AGATTTTCAG GGAGAAGTGA A ATG ACA ACC TCA CTA GAT ACA 112  
238 Met Thr Thr Ser Leu Asp Thr  
239 1 5  
240  
241 GTT GAG ACC TTT GGT ACC ACA TCC TAC TAT GAT GAC GTG GGC CTG CTC 160  
242 Val Glu Thr Phe Gly Thr Thr Ser Tyr Tyr Asp Asp Val Gly Leu Leu  
243 10 15 20  
244  
245 TGT GAA AAA GCT GAT ACC AGA GCA CTG ATG GCC CAG TTT GTG CCC CCG 208  
246 Cys Glu Lys Ala Asp Thr Arg Ala Leu Met Ala Gln Phe Val Pro Pro  
247 25 30 35  
248  
249 CTG TAC TCC CTG GTG TTC ACT GTG GGC CTC TTG GGC AAT GTG GTG GTG 256  
250 Leu Tyr Ser Leu Val Phe Thr Val Gly Leu Leu Gly Asn Val Val Val  
251 40 45 50 55  
252  
253  
254  
255 GTG ATG ATC CTC ATA AAA TAC AGG AGG CTC CGA ATT ATG ACC AAC ATC 304  
256 Val Met Ile Leu Ile Lys Tyr Arg Arg Leu Arg Ile Met Thr Asn Ile  
257 60 65 70  
258

PAGE: 1

**SEQUENCE VERIFICATION REPORT**  
**PATENT APPLICATION US/08/963,656**

DATE: 03/13/98  
TIME: 16:54:10

*INPUT SET: S24138.raw*

Line

Error

Original Text